

Amendments to the Specification:

Please amend the specification as follows:

Please delete paragraph starting on page 1, line 8 with "This application..." and ending on page 1, line 13 with "...Thereof" and replace it with the following paragraph:

This application claims benefit of co-pending U.S. Patent Application Serial No. 60/264,649 filed January 26, 2001, entitled "Mosquito Olfactory Genes, Polypeptides, and Methods of Use Thereof" which is hereby incorporated by reference. Be it known that I, Laurence J Zwiebel, a citizen of the United States, residing at 2512 Sunset Place, Nashville, TN 37212; have invented a new and useful "Mosquito Arrestin 1 Polypeptide Olfactory Genes, Polypeptides, and Methods of Use Thereof".

Please delete paragraph starting on page 23, line 5 with “FIG. 1...”and ending on page 23, line 6 with “...*gambiae*.”

Please delete paragraph starting on page 23, line 7 with “FIG. 2...”and ending on page 23, line 8 with “...NO:2).”

Please delete paragraph starting on page 23, line 9 with “FIG. 3...”and ending on page 23, line 10 with “...*gambiae*” and replace it with the following paragraph:

FIG. 1 ~~is 3a-b-are~~ the nucleotide sequence (SEQ ID NO: 9) ~~and deduced amino acid sequence (SEQ ID NO: 4)~~ of odorant receptor 1 isolated from *Anopheles gambiae*.

Please delete paragraph starting on page 23, line 11 with “FIG. 4...”and ending on page 23, line 12 with “...*gambiae*” and replace it with the following paragraph:

FIG. 2 ~~is 4-a-b-are~~ the nucleotide sequence (SEQ ID NO: 10) ~~and deduced amino acid sequence (SEQ ID NO: 6)~~ of odorant receptor 2 isolated from *Anopheles gambiae*.

Please delete paragraph starting on page 23, line 13 with “FIG. 5...”and ending on page 23, line 14 with “...*gambiae*” and replace it with the following paragraph:

FIG. 3 ~~is 5-a-b-are~~ the nucleotide sequence (SEQ ID NO: 11) ~~and deduced amino acid sequence (SEQ ID NO: 8)~~ of odorant receptor 3 isolated from *Anopheles gambiae*.

Please delete paragraph starting on page 23, line 15 with “FIG. 6...”and ending on page 23, line 16 with “...gambiae” and replace it with the following paragraph:

~~FIG. 4 is 6-a-b-are the nucleotide sequence (SEQ ID NO: 12) and deduced amino acid sequence (SEQ ID NO: 14) of odorant receptor 4 isolated from *Anopheles gambiae*.~~

Please delete paragraph starting on page 23, line 17 with “FIG. 7...”and ending on page 23, line 18 with “...gambiae” and replace it with the following paragraph:

~~FIG. 5 7 is a table of preferred codons used to deduce amino acid sequences from nucleotide sequences for *Anopheles gambiae*.~~

Please delete paragraph starting on page 23, line 19 with “FIG. 8...”and ending on page 23, line 20 with “...numbers” and replace it with the following paragraph:

~~FIG. 6 8 is a table listing cDNA and polypeptide sequences with corresponding SEQ ID numbers and Figure numbers.~~

Please delete paragraph starting on page 24, line 1 with “FIG. 9...”and ending on page 24, line 2 with “...gambiae” and replace it with the following paragraph:

FIG. 7 is ~~9-a-b~~ are the nucleotide sequence (SEQ ID NO: 21) and deduced amino acid sequence (SEQ ID NO: 16) of odorant receptor 5 isolated from *Anopheles gambiae*.

Please delete paragraph starting on page 24, line 3 with “FIG. 10...”and ending on page 24, line 4 with “...gambiae” and replace it with the following paragraph:

FIG. 8 is ~~10-a-b~~ are the nucleotide sequence (SEQ ID NO: 22) and deduced amino acid sequence (SEQ ID NO: 18) of odorant receptor 6 isolated from *Anopheles gambiae*.

Please delete paragraph starting on page 24, line 5 with “FIG. 11...”and ending on page 24, line 6 with “...gambiae” and replace it with the following paragraph:

FIG. 9 is ~~11-a-b~~ are the nucleotide sequence (SEQ ID NO: 23) and deduced amino acid sequence (SEQ ID NO: 20) of odorant receptor 7 isolated from *Anopheles gambiae*.